NATCO

NATCO
QUALITY
CLAY PRODUCTS
SINCE 1889

Structural Clay Products

Florida Power Corporation, A. W. Higgins Plant, Oldsmar, Florida
***Exterior*—Natco Dri-Speedwall Tile (Buff); Natco Vitritile (Green)**
***Interior*—Natco Vitritile (Cream)**
Architects, Engineers and General Contractors—
Unit #1—Kuljian Corporation; Units #2 and #3—Burns & Roe, Inc.

NATCO CORPORATION

GENERAL OFFICES: 327 FIFTH AVENUE
PITTSBURGH 22, PA.

NATCO CATALOG S-57
1957

NATCO PRODUCT INDEX

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FTI
STRUCTURAL
FACING TILE
INSTITUTE

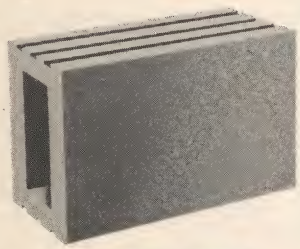
A.I.A. File No. 10A-B

NATCO CERAMIC GLAZE VITRITILE

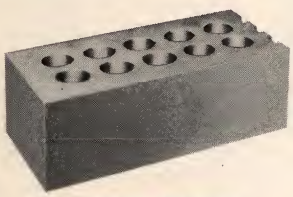
THE FINER BUILDING MATERIAL

"8W" SERIES
7¾" x 15¾" Tile Face Size

"6T" SERIES
5⅛" x 11¾" Tile Face Size



"4D" SERIES
5⅛" x 7¾" Tile Face Size



"4S" SERIES
2⅜" x 7¾" Brick Face Size

The facing tile products manufactured by Natco Corporation are all produced from light burning de-aired fire clay. Years of experience have proved that this type of fire clay provides the best body for finest quality facing tile. The designer can select from a variety of colors and finishes and any design condition can be met with the varied shapes and sizes, together with all of the necessary supplementary shapes.

The facing tile produced by Natco Corporation is truly the "finer building material." The products are constantly tested to be sure that they meet the superior quality standards established for Natco Vitritile as well as the quality standards set forth in the Facing Tile Institute's specifications. Further improvement in quality and production is constantly being sought through the Corporation's continuous program of research.

LOAD-BEARING . . . All Natco Vitritile units are designed for use in load-bearing construction in accordance with building code regulations and conform with all standard unit specifications for structural load-bearing clay tile. They are frequently used for constructing one or more wythes of composite load-bearing walls and partitions. With all face size series the nominal 2-inch thick units, called soaps, are also furnished for furring or veneering, and are also used back to back or mechanically bonded with other tile thicknesses for multiple unit two face walls and partitions.

PERMANENTLY BEAUTIFUL . . . The colors and finishes of Natco Structural Ceramic Glaze Vitritile are permanent, since they are the product of intense heat and are completely inert. The high quality of the clay body itself plus scientific methods of manufacture assure the permanency of these products in all normal usage.

FIRE-RESISTANT . . . The fire-resistance ratings of structural clay facing tile have been established by standard fire tests conducted at both the National Bureau of Standards and at Ohio State University. The results of these tests are summarized in the specifications of the Facing Tile Institute, and are also reported in National Bureau of Standards Report BMS92, published in October, 1942.

CHEMICAL-RESISTANT . . . Because of its resistance to the actions of chemicals, Natco Structural Ceramic Glaze Vitritile is ideal for use in laboratories, chemical plants and other types of structures where such resistance of the wall facing material is important. The Facing Tile Institute specifications for ceramic glaze tile include a chemical resistance test of the finish.

HYGIENIC . . . The highly impervious and non-absorbent finish which is an integral part of the finished surfaces of Natco Vitritile make it an ideal material for use where cleanliness is of great importance, such as in hospitals, medical clinics, food processing facilities, etc. The ceramic glaze finish is permanent and is easily kept clean and hygienic by ordinary washing.

Only a structural ceramic glaze clay product like Natco Vitritile has *all these* desirable characteristics — it is truly the "finer building material."

GUARANTEE

NATCO Corporation guarantees that any ware manufactured by it will conform to the quality standards, tolerances and grading rules established by the Facing Tile Institute. (See Facing Tile Institute Catalog in this Section of the current issue of Sweets' Architectural Catalog or in the book "Tile Engineering" published by the Structural Clay Products Institute.) If it can be established within reasonable time, but in no event longer than one year, that any material does not conform to these standards, NATCO Corporation will replace defective units. The measure of damage after ware has been installed will be the replacement of defective units without charge at the factory, but no charge for labor or other expenses required to repair defective ware or damage occasioned by it will be allowed.

This guarantee is expressly in lieu of all other guarantees and warranties expressed or implied and of all other obligations or liability on the part of NATCO Corporation, and NATCO Corporation neither assumes nor authorizes any other person to assume for it any other liability in connection with the sale of its ware.

NATCO CERAMIC GLAZE VITRITILE

SHORT FORM SPECIFICATION
FOR NATCO CERAMIC AND CLEAR GLAZE STRUCTURAL FACING TILE

1. SCOPE

This specification covers Select Quality *Ceramic Glaze* . . . and/or *Clear Glaze* . . . Natco Vitritile structural facing tile, for interior load-bearing or non-load-bearing facings, walls, partitions, columns, free standing and applied furring or veneers, as shown or indicated on the drawings.

2. QUALITY

All tile shall conform to the current unit specifications of the Facing Tile Institute, and shall be of the highest structural and mechanical quality. Shading shall be consistant with manufacturing process and approved samples.

3. SIZES AND SHAPES

The nominal face size of structural facing tile and fittings shall be.....in accordance with the.....Series, in nominal thicknesses as shown.

(Select as desired from the following and insert above.)

Series	Nominal Face Size	Tile Face Size	Nominal Thickness
"8W"*	8″ x 16″	7¾″ x 15¾″	2″, 4″
"6T"	5⅓″ x 12″	5⅛″ x 11¾″	2″, 4″, 6″, 8″
"4D"	5⅓″ x 8″	5⅛″ x 7¾″	2″, 4″, 6″, 8″

(*Note: Natco "8W" Series furnished exclusively with ground edges.)

Shapes and fittings shown in the Facing Tile Institute shape catalog for the corresponding face size series listed above, shall be furnished as required. In general, all sills, jambs and external corners shall be bull-nosed, and lintels shall be square. Miters or starters shall be furnished as required. All internal corners shall be square ("log-cabin" stretcher construction) unless otherwise noted. The base course shall be coved or as indicated on the drawings.

Double-faced walls or partitions greater than 4″ in thickness shall be built of two single-faced units, bonded as shown. Double-faced nominal 4″ partitions may be constructed of single 4″ units in the "4D" and "6T" Series; or with nominal 2″ soaps, back to back, bonded together as shown. In the "8W" Series, all double-faced walls and partitions, including the nominal 4″ thickness, shall be built of two single-faced units.

4. FINISHES AND COLORS

The finished face of all units shall be *smooth* . . . (or *mottled* for certain Ceramic Glaze finishes) . . . and the color shall conform to an approved sample consisting of three (3) stretcher units representing the range of shades.

Color of glaze facing tile shall be furnished as shown on the schedule of finishes.

(From the Natco Color Chart shown on pages 4 and 5 of this catalog, and/or actual tile samples: select the desired colors and corresponding shade numbers.)

5. CUTTING

All cutting required at the job shall be performed with a power-driven saw in such a manner as to provide true and even edges.

6. MORTAR

Mortar and mortar materials for laying glaze facing tile shall conform to the proportion requirements of ASTM Specifications C270-54T, "Mortar for Unit Masonry," except that all aggregate for masonry laid with approximate ¼″ joints shall pass a No. 16 sieve. Types (A-1), (A-2), (B) or (C) mortar may be used in accordance with specification, building code and/or job requirements. (For general purposes, Type (B) mortar is frequently specified for use with structural glaze facing tile.

7. JOINTS AND SETTING

All units and shapes shall be laid true to the line and with courses level. All joints shall be compactly tooled and slightly concave. (Joints may also be raked and repointed using white portland or colored mortar if desired. In some cases a rubbed flush joint may be preferred.)

Units are designed to conform to modular layout with ¼″ approximate joint thickness. The tile unit plus mortar joints shall conform to the nominal dimensions indicated in Section 3. (Similar joint thickness is also recommended for non-modular construction.)

8. CLEANING

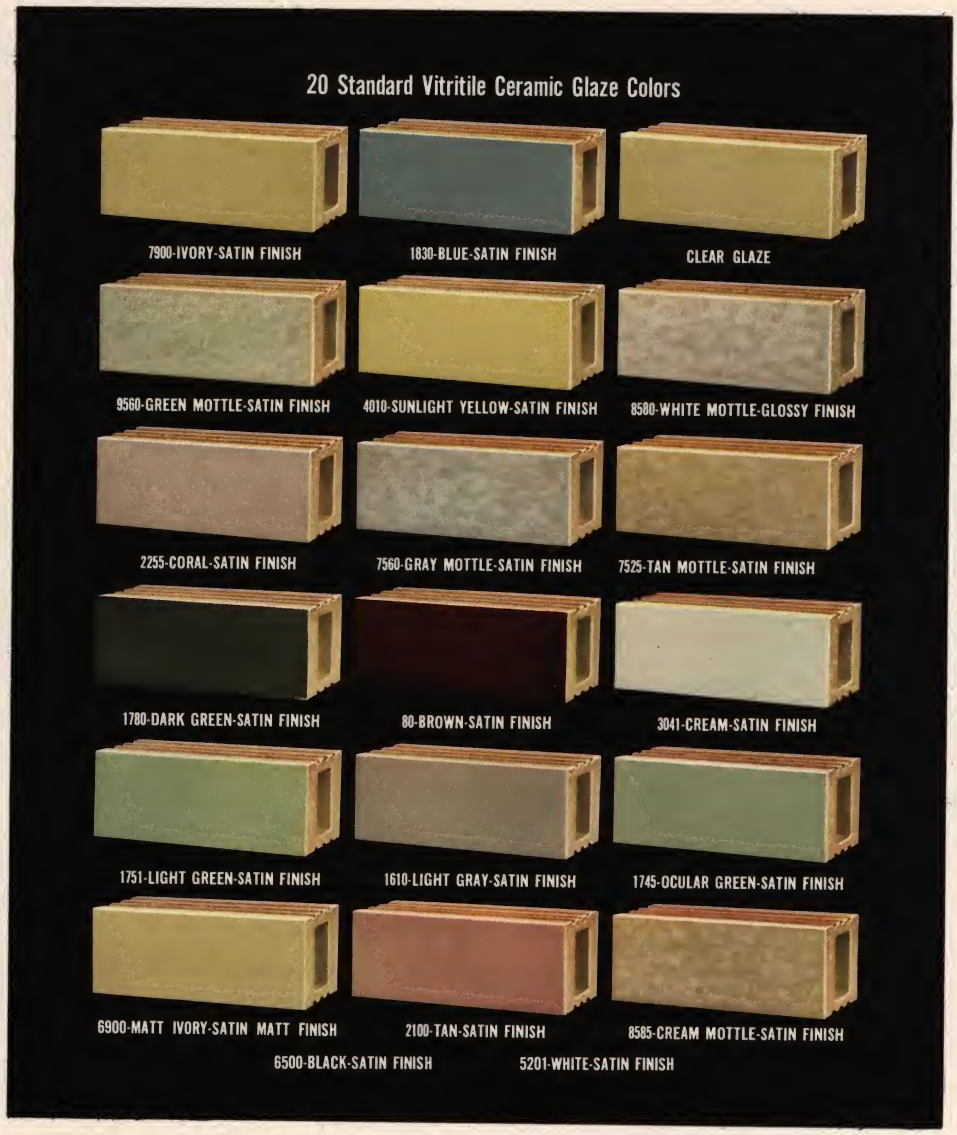
As the work progresses all surfaces shall be cleaned with a cloth or burlap. At the completion of the work, the walls shall be scrubbed with a brush using soap and water. No acid or metallic scrapers shall be used in cleaning.

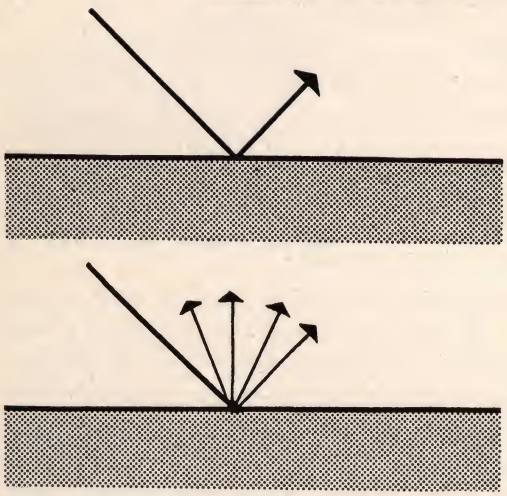
9. PACKING AND STORING

All Select and Standard Grade glaze facing tile units shall be packed in suitable cardboard or paper cartons or trays to protect them from chipping. Utmost care shall be taken in unloading and stacking facing tile on the job. If necessary to store outside, they should be placed on a platform and covered with a heavy tarpaulin. The units shall not be removed from the cartons until they are on the scaffold or in the position where needed.

NATCO CORPORATION

NATCO CERAMIC GLAZE VITRITILE
NATCO COLOR CHART





Shiny surfaces tend to reflect light in one direction only. The satin finish has higher diffusion and tends to break up the light and scatter it in all directions.

THE IDEAL SURFACE FINISH

The standard and endorsed finish of the Facing Tile Institute, and used on Natco Vitritile, is satin, a hard and durable surface with a slight angular sheen. Such a surface will, first of all, stay clean and be less likely to collect lint or smudge — therefore it will be easier and more economical to maintain. Secondly, dull matt finishes may be readily marked with pencils, dirty fingers, etc.; to use satin is to anticipate and avoid smearing. Third, gloss finishes are not only glaring but they may also soil readily! High gloss will show finger marks, smudge, condensation, soot, smoke — just as dark ceramic floors and wool carpets, black linoleum and tile, will be less practical than medium tones.

It is important, of course, to control and avoid glare. Disturbing specular reflections are by no means due entirely to the surfaces and areas in an interior but also to poorly designed lighting systems. Where there is a good distribution of diffuse light, even mirrors and highly polished metals and ceramics will be remarkably free of gloss and glitter.

NATCO CERAMIC GLAZE VITRITILE

NATCO COLOR STANDARDS

RESEARCH METHOD IN COLOR SELECTION . . . Ceramic glaze structural facing tile is a practical and functional product in many ways. It is structurally sound and permanent. The color standards of Vitritile, established by scientific research, are also functional and meant to serve useful ends.

There are no "gaudy" hues for the sound reason that Vitritile often is applied in large areas where too much brilliance of hue would be out-of-place. Further, modern technical practice has shown that relatively subdued colors are easiest on the eyes. They relieve glare, establish proper brightness ratios and lack distraction. Many Vitritile installations are in areas and departments where human occupancy is long and where functions are best served with conservative rather than dominating colors.

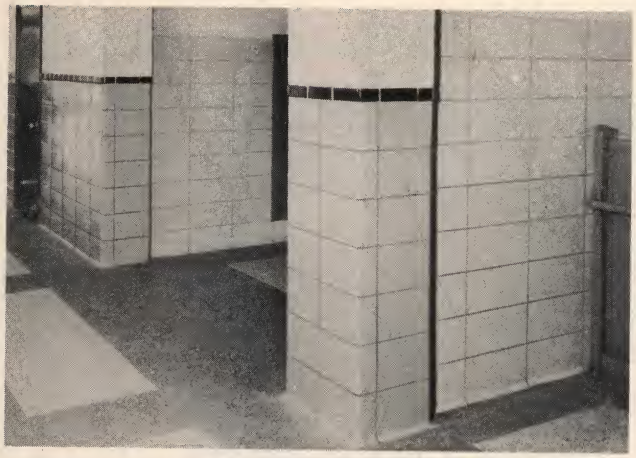
Every effort has been made to understand the problems of the architect, builder and building owner. A wealth of actual experience and case history has been called upon to develop a line of useful and versatile color standards for Natco Vitritile — to last through the years and to have permanent rather than passing beauty.

The colors described below and shown on the opposite page represent Natco Vitritile color standards. Slight variation is to be expected because of the nature of vitreous firing and the inadequacy of printing reproduction.

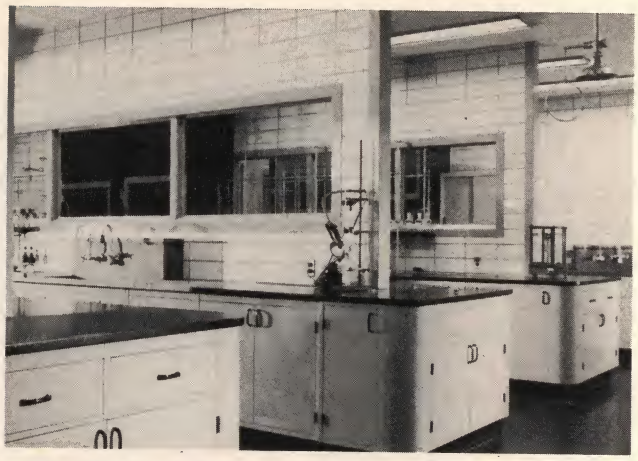
Color	Shade No.	Description
Green Mottle	9560	One of the most useful, functional and pleasing of all standard colors.
Cream Mottle	8585	For an off-white effect having an interesting surface texture.
White Mottle	8580	Desirable where a variegated finish of high reflectance seems appropriate.
Gray Mottle	7560	A widely specified color for any number of uses to relieve glare and remain unobtrusive over large areas.
Tan Mottle	7525	Useful where warm low brightness and pleasing surface texture is desired.
Ivory	7900	A warm, off-white tint, suitable for areas in which abundant light reflection is wanted.
Matt Ivory	6900	The ivory tint with satin matt finish provides a surface offering great diffusion and soft appearance.
White	5201	A hard, durable surface and the brightest of all finishes for a multitude of applications where glare may not be objectionable.
Sunlight Yellow	4010	Yellow occupies the point of highest visibility in the spectrum. Its reflections make seeing acute and its appearance is sunny and luminous.
Cream	3041	A luminous off-white tint, suitable where a stimulating effect is desired for physical tasks.
Coral	2255	A subtly warm "flesh tone" to color condition an interior against low temperatures. Coral holds special appeal to women. It has wide uses in employee facilities such as wash rooms.
Tan	2100	A trim color for Ivory, Sunlight Yellow, Cream, Cream Mottle. Useful by itself where warm low brightness is preferred.
Blue	1830	This color has many special applications. It has architectural beauty and mass appeal.
Light Green	1751	A color of universal utility for almost any operation involving many employees.
Ocular Green	1745	A functional color for critical seeing tasks and where cool low brightness is wanted. Also harmonious for trim.
Light Gray	1610	A very practical and beautiful color where good visibility is to be assured. Gray is free of glaring brightness and will not distract attention in critical seeing tasks.
Black, Dark Green, Brown	6500 1780 80	These colors are primarily used as trim in combination with other ceramic glaze colors.
Clear Glaze		A warm gloss finish with the pleasing subtle shade variation inherent in the natural clay tile.

NATCO CORPORATIO

NATCO CERAMIC GLAZE VITRITILE



North Harford School, Pylesville, Md. NATCO Ceramic Glaze Vitritile, "8W" Series Stretcher Stack Bond Construction. Architects: Palmer, Fisher, Williams and Ness; General Contractor: Davis Construction Co.



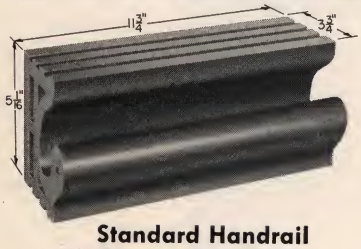
Smith, Kline and French, Laboratory Building, Philadelphia, Pa. NATCO "6T" Series Ceramic Glaze Vitritile laid in Stretcher Stack Bond Construction. Architect: Ballinger Company; Mason Contractor: John B. Kelly, Inc.

NATCO CERAMIC GLAZE HANDRAIL

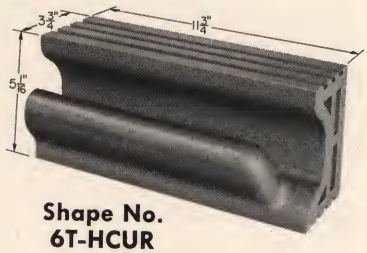
Natco Handrail Tile Units are designed for use in stairways faced with ceramic glazed facing tile to replace conventional wood and metal handrails. They are available in all standard ceramic glazed Vitritile straight and trim shades. As noted, this design projects only one inch from the wall surface, thereby saving from 4 to 6 inches in the overall width of typical stair wells.

This unit is also adapted for use as a "grab" rail in showers and certain hospital areas, and is used for condensation gutters in some types of manufacturing plants.

Please write for prices and shape details.

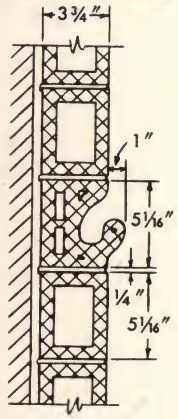


Standard Handrail
Shape No. 6T-HU



Shape No. 6T-HCUR

Handrail Stop
Right hand shown
No. 6T-HCUL
Left hand opposite



Typical Section

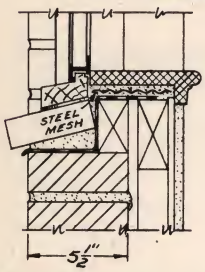
NATCO CERAMIC GLAZE WINDOW STOOL

For use with wood or metal windows in all types of modern construction.

Sill Stretcher No. 66S

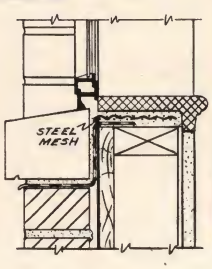
NATCO Ceramic Glaze Window Stools, made of hard-burned de-aired fire clay, are available in various solid colors including the popular NATCO Pastel Shades. These stools are permanent in their beauty, free of maintenance cost and easy to clean and keep clean. Their luster and color are impervious to sun and moisture. They are rot-proof, non-shrinking and non-warping.

Please write for additional information.



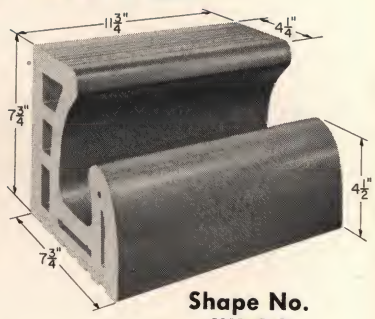
AT LEFT
Detail For
"SCR" Brick
Construction

AT RIGHT
Detail For
Masonry Veneer
Construction



NATCO CERAMIC GLAZE SWIMMING POOL OVERFLOW GUTTER

Furnished for use in all inside pools and for outdoor pools in the South as permitted by climatic conditions.



Shape No. 6W-OG

Natco Swimming Pool Overflow Gutter Tile is available in two green ceramic glaze colors (shades 1745 and 1751) and blue (shade 1830), only in the basic stretcher unit shown. No fittings are furnished. Miters and corners must be cut on the job. These units incorporate a non-slip top surface as an important safety feature.

Supplementary non-slip, nominal 2″ and 4″ thickness, flat stretcher units are also available in 5 1/16″ x 11¾″ and 7¾″ x 15¾″ face sizes for walkways, floors, pool aprons and bottoms.

Please write for prices and shape detail sheet.

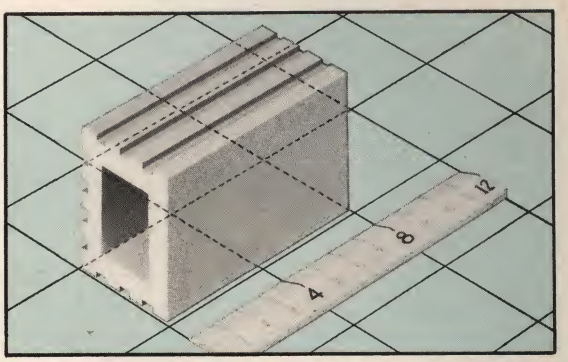
NATCO "4D" SERIES CERAMIC GLAZE VITRITILE

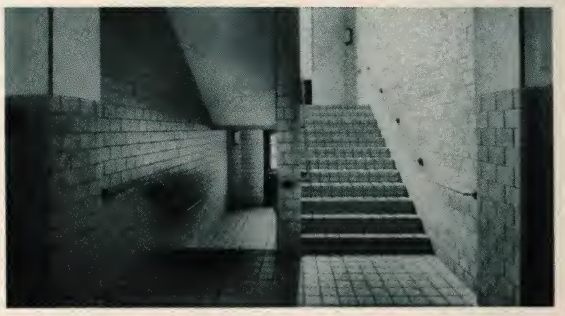
NOMINAL FACE SIZE - 5⅓" x 8" TILE FACE SIZE - 5 1/16" x 7¾"

A nominal masonry unit is equal to the actual unit, plus the thickness of one mortar joint in all three dimensions of the unit. Tile with 12-inch scale is laid at right on grid plan of 4-inch squares to illustrate correlation of NATCO "4D" Series Vitritile with the basic 4-inch module unit of measure.

When you use NATCO "4D" Series Glazed Vitritile for the interior load-bearing walls, interior facings, partitions, furring, veneers and wainscots of your building, you provide a permanent interior finish combined with a complete structural unit in the same operation, at one cost. Walls are attractive and sanitary and require little or no maintenance, except for an occasional easy cleaning with soap and water. No finishing or redecorating is ever needed. Where strong, fire-proof walls and partitions are desired, you will find that NATCO Glazed Vitritile will meet every requirement.

Vitritile "4D" Series face size is equivalent in area to two standard brick. Available in nominal 4-inch, 6-inch and 8-inch wall thicknesses, also in 2-inch thickness for furring. Usually furnished select one face; four-inch stretchers can be supplied select two faces. NATCO "4D" Series Glazed Vitritile is offered where architects, contractors and builders prefer the two brick size unit.



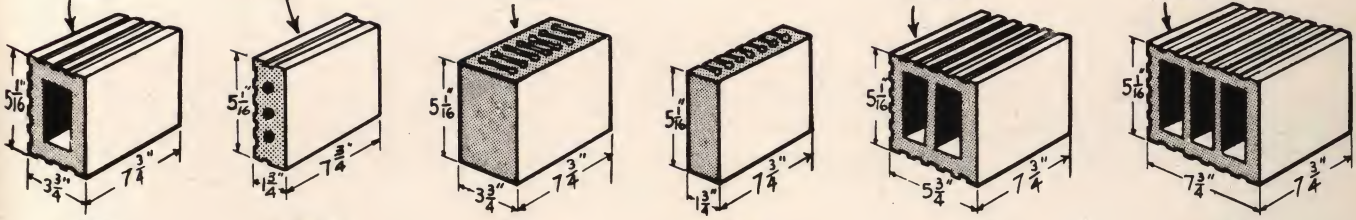


NATCO "4D" Series Modular Glazed Vitritile and NATCO Stairtread Tile in Concord School, Pittsburgh Pennsylvania.

COLORS AND SHAPES

Vitritile "4D" Series is available in ceramic and clear glazed finishes as described on page 5. A complete list of stretchers, shapes and flittings are furnished in the "4D" Series.

For further information on "4D" Series Vitritile, please write for:
NATCO "4D" Series Vitritile Shape Details — Bulletin 4D-1255
NATCO Ceramic Glazed Vitritile Color Standards — Bulletin CC-55



4DC
4DCsm
4DCgr (shown)
4DCsu

4DCA

4D
4Dsm (shown)
4Dgr
4Dsu
Also Available
4S—2⅜" high

4DA
Also Available
4SA—2⅜" high

4DC60
4DC60gr (shown)
4DC60su

4DC80
4DC80gr (shown)
4DC80su

Horizontal cell units shown above are usually desired. Where vertical shapes are preferred they will be furnished.

Shipments may be facilitated by simply ordering stretchers (Example 4DC; 4D; 4DC60 or 4DC80) thereby permitting the manufacturer to ship either the scored or smooth back stretchers or a mixture. If job conditions require that the back be of a certain type, they may be obtained by adding the desired suffix to the basic stretcher number as follows:
Suffix gr — Scored back • Suffix sm — Unselected, glazed (smooth) back • Suffix su — Unselected, unscored, unglazed back

NATCO "4S" SERIES CERAMIC GLAZE VITRIBRIK

NOMINAL FACE SIZE - 2⅔" x 8" FACE SIZE 2⅜" x 7¾"

Manufactured primarily for trim and decorative use with the "8W" and "4D" Series Vitritile, the "4S" Series Vitribrik is available in Ceramic and Clear Glazes. A complete line of shapes and fittings is furnished including stretchers, square and bullnose jambs, corners, sills, lintels and hand-made fittings.

Brick Size 2⅜" x 3¾" x 7¾"

For additional information, please write for:
NATCO "4S" Series Vitribrik Shape Details — Bulletin 4S-54
NATCO Ceramic Vitritile Color Standards — Bulletin CC-55

NATCO CORPORATIO

NATCO CERAMIC GLAZE VITRITILE

H. J. Heinz Co., Service Building, Pittsburgh, Pa. NATCO "8W" Series Ceramic Glazed Vitritile.
Architects: Skidmore, Owens and Merrill. Masonry Contractor: John B. Kelly Co.

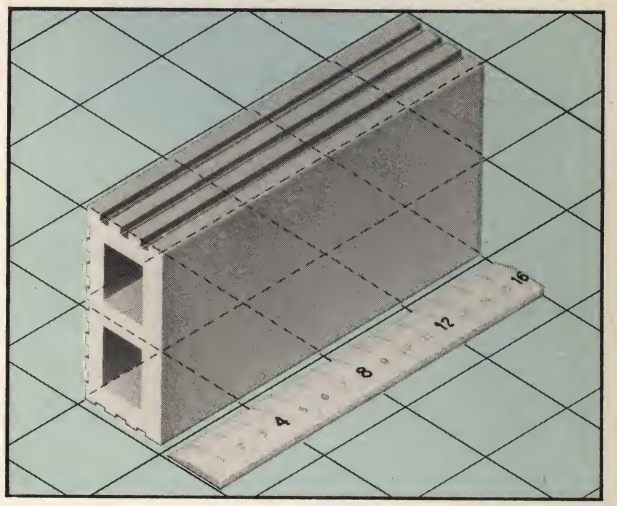
Gymnasium, Wayneville, S. E. Consolidated High School, Apple Creek, Ohio. NATCO "8W" Series Ceramic Glazed Vitritile.
Architects: Jos. Baker & Assoc. General Contractor: John G. Ruhlin Construction Co.

NATCO "8W" SERIES CERAMIC GLAZE VITRITILE

NOMINAL FACE SIZE - 8″ x 16″ TILE FACE SIZE - 7¾″ x 15¾″

Tile and 16-inch scale are laid at right on grid plan of 4-inch squares to illustrate the correlation of NATCO Vitritile, "8W" Series, with the basic 4-inch module unit of measure. A nominal masonry unit is equal to the actual unit, plus the thickness of one mortar joint in all three dimensions of the unit.

Interior load-bearing facings and walls, partitions, veneers and wainscots, of NATCO Modular Ceramic Glazed Vitritile, "8W" Series are attractive and cheerful, and remain that way during the lifetime of the building. Maintenance is practically eliminated except for occasional cleaning with ordinary soap and water. Erection costs are lower too, because of the large size ground edge units furnished in modular sizes. Walls set up sturdy and strong, with little or no cutting of units on the job. This means no time losses, better workmanship and less material wastes.



GROUND EDGES

Demands for narrow mortar joints and job specifications calling for tile with true and square edges are met by grinding to size and shape after burning. Modern NATCO production and grinding equipment assures the best in quality. NATCO 8W Series is ideal for block bond construction.

COLORS AND SHAPES

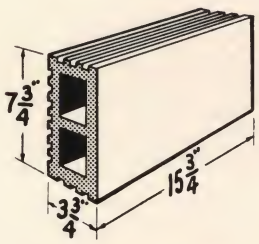
NATCO Ceramic Glazes for "8W" Series Vitritile are furnished in various solid colors and pleasing mottled effects (See Page 5 for available colors). NATCO Pastel Shades are among the more popular finishes.

A complete line of stretchers, supplemental shapes and fittings are furnished in the "8W" Series as required to meet all typical job requirements.

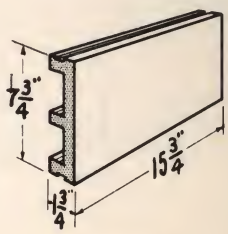
OUTSTANDING ADVANTAGES

Ground Edges—Pleasing Architectural Effects—Larger Units—Fewer Mortar Joints—Modular Designed for Greater Flexibility—Easily Cleaned and Kept Clean.

For more complete information please write for bulletins:
NATCO "8W" Series Vitritile Shape Details — Bulletin 8W-455
NATCO Ceramic Glaze Vitritile Color Standards — Bulletin CC-55



4″ STRETCHER
8W
4W — 7¾″ Length



2″ SOAP
8WCA
4WCA — 7¾″ length

Corridor, Don Bosco High School, Milwaukee, Wisconsin. Architects, Brust and Brust; General Contractor, H. Schmitt & Sons, Incorporated. NATCO "8W" Series Ceramic Glazed Vitritile.

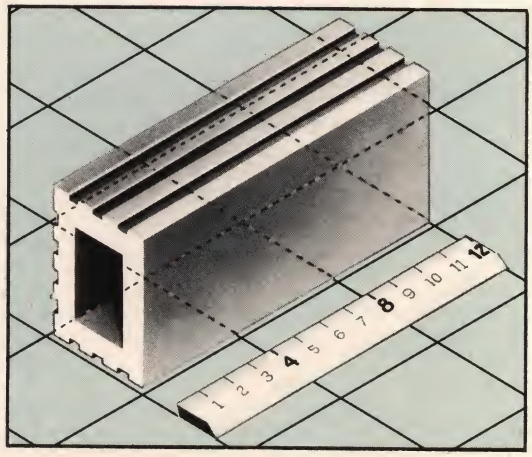
Public Service Electric and Gas Co., Sewaren, New Jersey. Architect, Public Service Electric and Gas Co.; General Contractor, United Engineers and Construction, Inc. NATCO "8W" Series, Shade 1610.

NATCO "6T" SERIES CERAMIC GLAZE VITRITILE

NOMINAL FACE SIZE - 5⅓" x 12" TILE FACE SIZE - 5 1/16" x 11¾"

Tile with 12-inch scale are laid at right on grid plan of 4-inch squares to illustrate the correlation of NATCO "6T" Series Vitritile with the basic 4-inch module unit of measure. A nominal masonry unit is equal to the actual unit plus the thickness of one mortar joint in all three dimensions of the unit.

Bright, clean, impervious to the effects of acids or fumes, quickly and easily cleaned, resistant to hard usage, permanent, structurally strong walls that require the minimum of maintenance for the life of the building—these are the advantages you get by using NATCO "6T" Series Modular Glazed Vitritile for the load-bearing facings, partitions, furring and all interior walls of your building.



FEATURES

The "6T" Series face size is equivalent to 3 standard brick. Nominal 4", 6" and 8" wall thicknesses, also 2" thickness for furring, are available. Usually furnished select one face; four inch stretcher units can be furnished select two faces. Many architects, contractors and builders prefer NATCO "6T" Series Ceramic Glazed Vitritile because of its adaptability for use in all types of buildings.

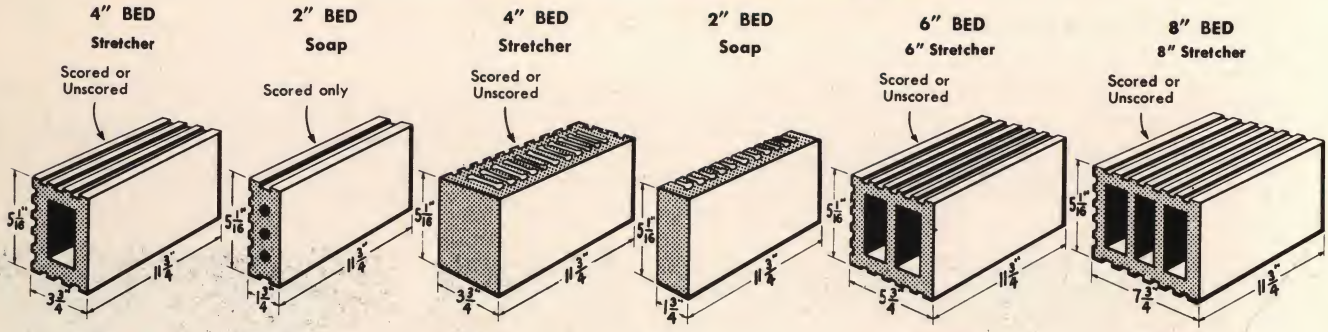
On any specific application, NATCO'S Engineering Department will welcome an opportunity to work out the most efficient and economical use of NATCO Glazed Vitritile in any series that may be preferred.

COLORS AND SHAPES

NATCO "6T" Series Modular Glazed Vitritile is furnished in Ceramic and Clear Glazes (See Page 5 for complete list of available standard colors and finishes).

A complete line of stretchers, supplemental shapes and fittings are furnished in the "6T" Series as required to meet all typical job requirements.

For more complete information please write for bulletins:
NATCO "6T" Series Vitritile Shape Details — Bulletin 6T-1155
NATCO Ceramic Glazed Vitritile Color Standards — Bulletin CC-55



6TC

6TCgr (shown)
6TCsm
6TCsu

Horizontal cell units shown above are usually desired Where vertical shapes are preferred they will be furnished.

6TCA

6T

6Tgr (shown)
6Tsm
6Tsu

Also available
6S—2⅜" high

6TA

Also available
6SA—2⅜" high

6TC60

6TC60gr (shown)
6TC60su

6TC80

6TC80gr (shown)
6TC80su

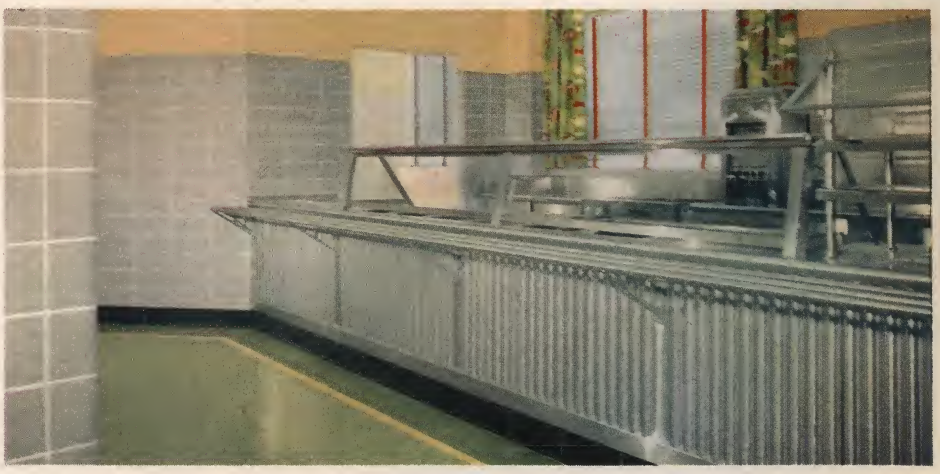
Shipments may be facilitated by simply ordering stretchers (Example 6TC; 6T; 6TC60 or 6TC80) thereby permitting the manufacturer to ship either the scored or smooth back stretchers or a mixture. If job conditions require that the back be of a certain type, they may be obtained by adding the desired suffix to the basic stretcher number as follows:—
Suffix gr—Scored back
Suffix sm—Unselected, glazed (smooth) back
Suffix su—Unselected, unscored, unglazed back

Ohio National Insurance Co., Cincinnati, Ohio. Architect, Charles F. Cellarius; General Contractor, Frank Messer & Sons. NATCO "6T" Series Ceramic Glazed Vitritile.

University of Wisconsin, Madison, Wisconsin. General Contractor, J. H. Findorff and Son. NATCO "6T" Series Ceramic Glazed Vitritile.

NATCO CERAMIC GLAZE VITRITILE

The Russell Station,
Rochester Gas and Electric
Exterior — Buff Dri-Speedwall Tile
Interior — "6T" Series Ceramic Glaze Vitritile
Architects & Engineers:
Gilbert Associates, Inc.
General Contractors:
A. Friedrich & Sons



St. Vincents' Hospital — Toledo, Ohio
Natco "6T" Ceramic Glaze Vitritile
Magoulo & Quick, St. Louis, Architects
A. Bentley & Sons, Toledo, General Contractors

NATCO "SCR" BRICK*

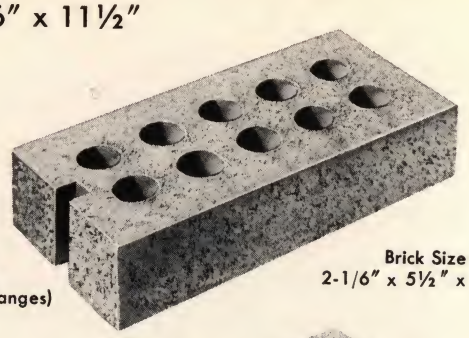
NOMINAL FACE SIZE - 2⅔" x 12" BRICK FACE SIZE - 2-1/6" x 11½"

FURNISHED IN RED AND BUFF RANGES

Completely new and modern NATCO "SCR" Brick, developed by the Structural Clay Products Research Foundation, combines the beauty of the original Norman brick size with the utility and structural advantage of a single unit for nominal 6" masonry wall construction.

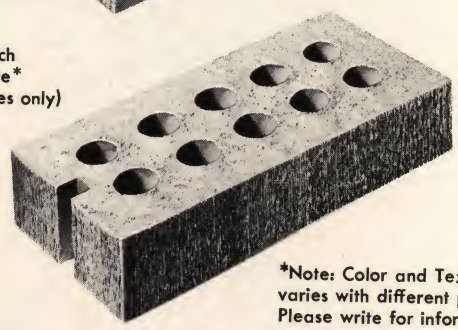
Designed primarily to meet the construction requirements of FHA and National Building Codes for one story, single family dwellings, where the wall height does not exceed 9 feet to the eaves or 15 feet to the peak of the gables. NATCO "SCR" Brick is also adaptable for use in many other types of construction.

For descriptive and detail information please write for bulletins:
NATCO "SCR" Brick illustrated brochure — Bulletin 5R1252
NATCO "SCR" Brick Technical Notes — Bulletin SCPI, Vol. 4, No. 4



Velour Texture* (Red and Buff Ranges)

Brick Size 2-1/6" x 5½" x 11½"



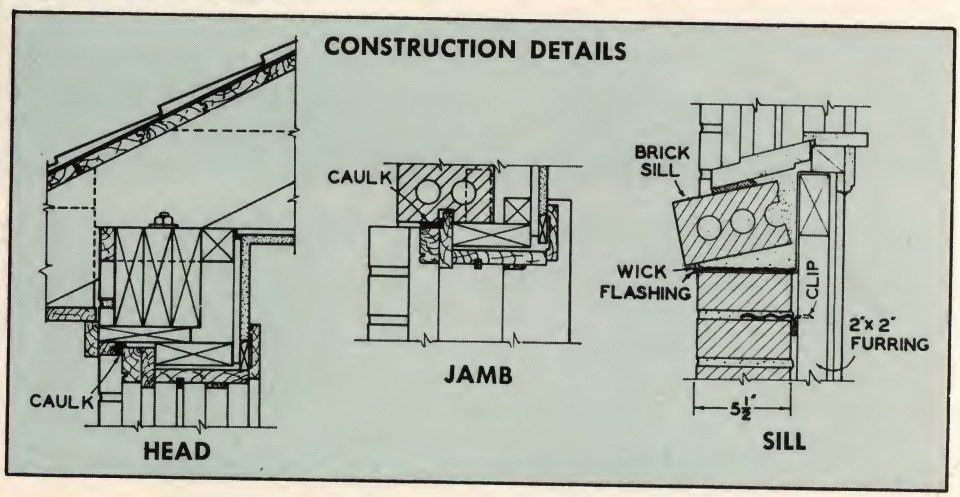
Scratch Texture* (Red Ranges only)

*Note: Color and Texture varies with different plants. Please write for information.

Actual job view below shows method of handling and placing the new "SCR" Brick for single unit nominal 6" thru-the-wall construction.

Below is shown a typical installation detail for wood double-hung windows. Note the use of the brick jamb slot for the blind stop extension. The nominal 2" x 2" furring strips for interior plaster, board or insulation application are shown as recommended, generally spaced on 16-inch centers

*Reg. U.S. Pat. Off., Pat. Pend., SCPRF



NATCO TEX DRI-WALL TILE

NOMINAL FACE SIZE - 4" x 12" TILE FACE SIZE - 3⅝" x 11⅝"

FURNISHED IN RED RANGE AND FLASHED RED RANGE

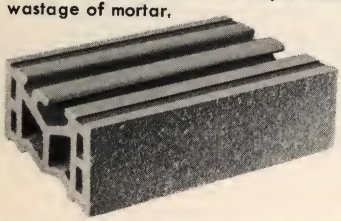
For attractive, durable homes and other buildings, NATCO Tex Dri-Wall Tile, due to its velour texture and brick proportions, have the appearance of high quality textured face brick.

Furnished in nominal 8" Stretcher for single unit wall construction, and double-shell horizontal cell 4" Stretcher for masonry veneer and cavity walls, also the Standard Fitting as illustrated. The small number of easily handled shapes required appeal strongly where construction economy, low upkeep, fire safety and appearance is important.

MANY ADVANTAGES OF NATCO TEX DRI-WALL TILE ARE EXCLUSIVE

The illustration at the right, and the outline below, briefly describe these advantages.

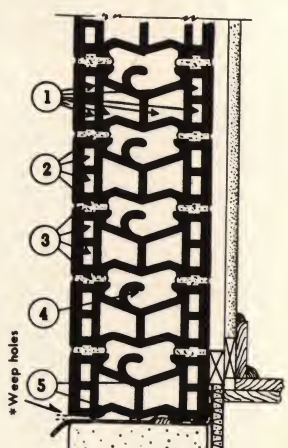
1. CAPTIVE AIR SPACES — Walls are insulated against rapid changes in temperature.
2. NON-THRU MORTAR JOINTS — Widely separated mortar joints very effectively resist moisture penetration through the wall.
3. WIDE DOUBLE SHELLS — Strong, secure mortar joints are assured, together with ample bearing, plus minimum wastage of mortar.
4. SMOOTH BUILT-IN HANDLE — Permits quick safe and easy handling. This results in more efficiency and greater economies in erection.
5. DRI-WALL FEATURE — Consists of a series of interior troughs in which any small amount of moisture, that may penetrate through the exterior mortar joints, is directed to the open "V-type" channels. There it runs off through weep holes to the outside of the wall.



Tex 80 — 8" Stretcher, Nominal Dimensions 8" x 4" x 12"
Also Available:
Tex 40 — 4" Stretcher, Nominal Dimensions 4" x 4" x 12"

For Complete information please write for: NATCO Tex Dri-Wall Bulletin, Tex DW-1.

Tex 45 — 4" Standard Fitting, Nominal Dimensions 4" x 12" x 4"



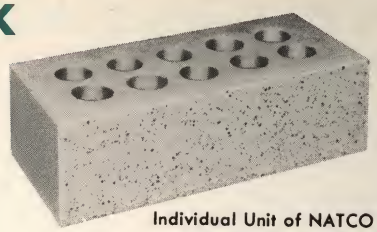
*Weep holes required on approximate 3' centers unless drainage pipes or vents are provided. Weep holes also required at sills, lintels, spandrels, and foundations above grade in connection with recommended flashing to direct moisture to exterior.

SPECKLED CERAMIC GLAZE FACE BRICK

BRICK SIZE - 2¼″ x 3¾″ x 8″

This attractive Ceramic Glazed product is especially designed for exterior use. It is furnished in gray and white ceramic background colors with medium and heavy speck finishes. NATCO Speckled Ceramic Glaze Face Brick is widely used for permanent beauty and distinctive exterior architectural effects.

For complete information, please contact NATCO'S nearest Branch Sales Office (See back cover).



Individual Unit of NATCO Speckled Ceramic Glazed Face Brick
Brick Size 2¼″ x 3¾″ x 8″

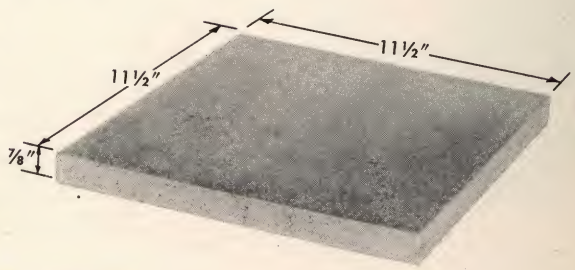
NATCO PATIO TILE

NOMINAL SIZE 1″ x 12″ x 12″ TILE SIZE ⅞″ x 11½″ x 11½″

Natco Patio Tile is made from deaired fire clay, hard-burned and produced in a full range of medium buff, tan and copper tones, with attractive flashed color effects.

Full stretchers are furnished as illustrated, also supplementary half stretchers, size ⅞″ x 11½″ x 5½″ and quarter stretchers, size ⅞″ x 5½″ x 5½″, for use in obtaining various geometric layout patterns, as desired.

Corresponding full, half and quarter, single bullnose end stretcher and sill units, also bullnose corner units, are available to meet construction conditions where finished rounded ends are required.



Please write for Natco Patio Tile Shape Details.

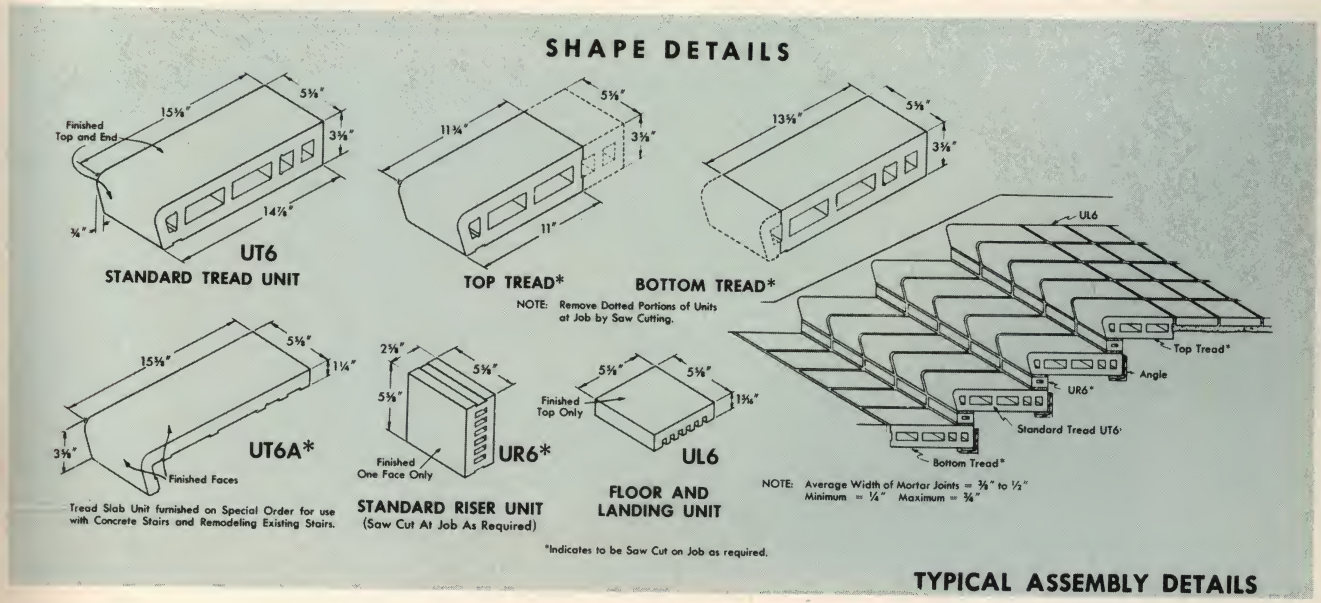
NATCO STAIRTREAD TILE

FOR SIMPLIFIED STAIR DESIGN FEATURING LONG WEAR AND LOW MAINTENANCE COST

Rugged, enduring and fireproof NATCO Stairtread Tiles, of hard-burned deaired clay in pleasing buff shades, have every essential for satisfactory and economical stairway construction. They are permanently slip proof and have high resistance to abrasion and wear — there is no "cupping" of these tile treads. More than just a wearing surface, they are a complete structural unit designed for uniformity, maximum strength and speedy erection.

NATCO Stairtread Tiles provide a standard of construction which greatly simplifies the job of stair designing and effects sizeable economies in construction and maintenance without affecting the latitude of design to any extent. By varying mortar joints both vertically and horizontally, difference in story heights and horizontal dimensions can easily be met. The steel underframe is exceedingly simple and saves up to 40-50% of the supporting steel required for other types of stairs. Painting is never necessary. NATCO Stairtread Tiles are impervious to even the strongest cleaning compounds, hence they are easy to clean and keep clean.

For shape details and construction information, please write for: NATCO Stairtread Tile details — Bulletin ST 400



NATCO MODULAR DRI-SPEEDWALL TILE

BUFF UNGLAZED - MANGANESE SPOT - RED TEXTURED

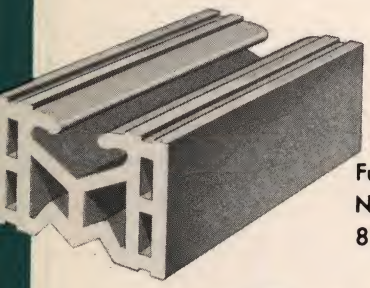
Nominal Face Size — 5⅓″ x 12″
Nominal Widths — 4″ and 8″

Tile Face Sizes

Buff and Manganese Spot — 5″ x 11⅝″
Red Shale — 4 15/16″ x 11⅝″

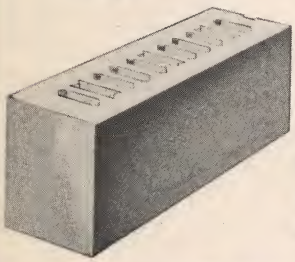
Tile widths — 3⅝″ and 7⅝″

Red Shale Textured Dri-Speedwall Tile also made in certain localities in non-modular face sizes Standard thicknesses 3⅝″ and 7¾″



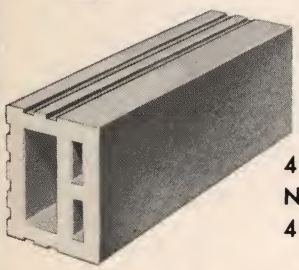
SS-8512
TT-8512

Full Stretcher
Nominal Dimensions
8″ x 5⅓″ x 12″



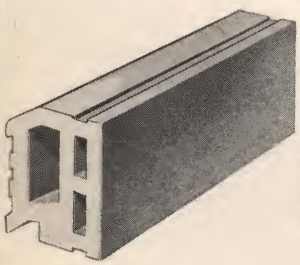
S-45
SS-45
T-45

Universal Fitting
Nominal Dimensions
4″ x 12″ x 5⅓″



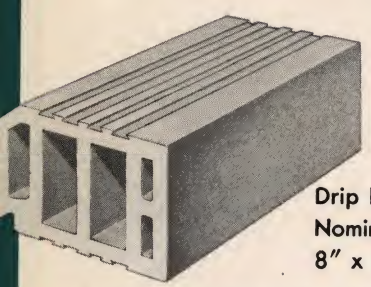
S-45K12
T-45K12

4″ Bonding Stretcher
Nominal Dimensions
4″ x 5⅓″ x 12″



S-45D12
T-45D12

Drip Joist Stretcher
Nominal Dimensions
4″ x 5⅓″ x 12″



S125D12

Drip Bonding Stretcher
Nominal Dimensions
8″ x 5⅓″ x 12″

In shape designations above, letter "S" indicates smooth finish and letter "T" textured finish. See description in upper right for finish available in various types.

EXTERIOR WALL UNITS

NATCO Dri-Speedwall Tile, made from selected clays by the de-airing process, is highly impervious to moisture and throughly fireproof. It is termite and vermin proof and cannot rot or decay. A wall of NATCO Dri-Speedwall Tile possesses great load-bearing strength and, because of its design and mortar interlocking feature, is highly resistant to lateral as well as vertical pressures. Walls of NATCO Dri-Speedwall Tile require no painting or repairs and are free from shrinkage and cracking. Colors and finishes, as described below, are as permanent and enduring as the tile itself.

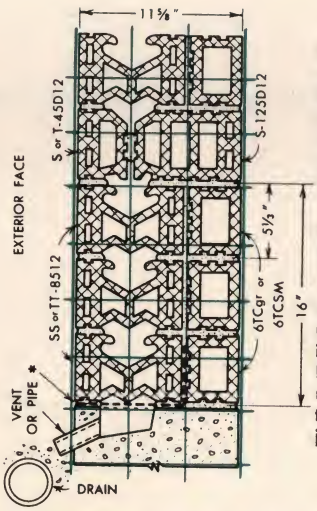
NATCO Dri-Speedwall single 8-inch stretcher units are furnished on special order in the Buff Unglazed and Manganese Spot finishes, designed SS-8512D, gauged to size with selected finish on both surfaces. These units are gauged at the manufacturing plants into lots which do not vary more than ⅛th-inch in thickness to provide a good mechanical wall. More than one lot size may be shipped on the job but they should be stacked separately and erected in different parts of the building.

MANGANESE SPOT—A pleasing exterior finish with manganese spots in a mingled range of light cream and buff shades. Both interior and exterior wall surfaces are smooth. Tile face size, 5″ x 11⅝″.

BUFF UNGLAZED—A natural unglazed attractive buff finish, which is recommended where lighter colors are desired. Both interior and exterior wall surfaces are smooth. Tile face size 5″ x 11⅝″.

RED TEXTURED—Gives the appearance of high quality face brick. Both exterior and interior faces textured: Tile face sizes vary in different localities. Furnished only in shapes illustrated on this page. Not available in gauged material.

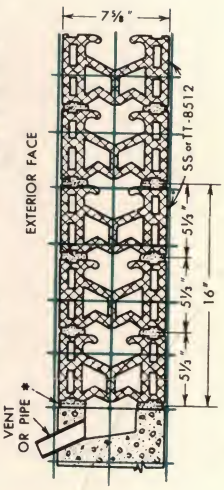
For more specific information on NATCO Dri-Speedwall Tile, please write for catalogs:
NATCO Buff Unglazed and Manganese Spot Dri-Speedwall Tile — Bulletin DRI-18-C
NATCO Red Shale Textured Dri-Speedwall Tile — Bulletin RDS 3



In the 12″ wall section at left, the basic 8512 stretcher is used with the single face 6TCSM for typical courses. The Dri-Wall feature has been maintained at the bonding course by the use of Drip Bonding Stretchers and Drip Joist Stretchers.

Typical section of 8″ wall of NATCO Dri-Speedwall Tile at right.

Sections show correlation of tile units with 4″ grid lines as standardized for modular coordination of all building materials. Nominal dimensions are also indicated and are the tile dimensions plus one mortar joint.



*Weep holes required on approximate 3′ centers unless drainage pipes or vents are provided. Weep holes also required at sills, lintels, spandrels, and foundations above grade in connection with recommended flashing to direct moisture to exterior.

Colgate-Palmolive-Peet Company, Jeffersonville, Indiana. Constructed with complete exterior and interior walls of Natco Buff Unglazed Dri-Speedwall Tile. Albert Kahn Associated Architects & Engineers, Inc.

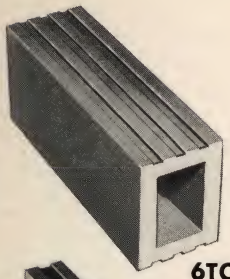
NATCO MODULAR DRI-SPEEDWALL TILE

Rochester Gas and Electric Co., Russell Station, Rochester, N. Y.
Natco Buff Dri-Speedwall Tile Exterior: Ceramic Glaze Vitritile Interior
Architects & Engineers: Gilbert Associates, Inc.
General Contractor: A. Friedrich & Sons

National Biscuit Company, Chicago, Ill.
Natco Buff Dri-Speedwall Tile Exterior: Ceramic Glaze Vitritile Interior
Architects & Engineers: Alexander D. Crosett & Associates
General Contractor: Ragnar Benson, Inc.

NATCO MODULAR FACING TILE

BUFF UNGLAZED AND MANGANESE SPOT—Tile Face Size 5″x11⅝″

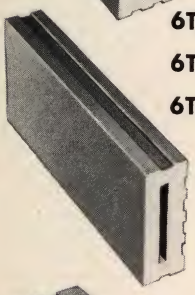


4″ Stretcher

6TC SM

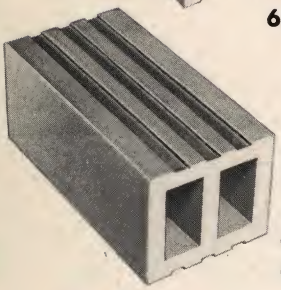
6TCD (Select two faces)

6TCgr (Scored back)



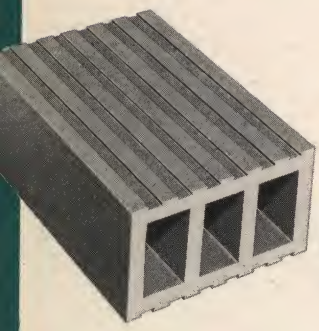
2″ Soap Stretcher

6TCA



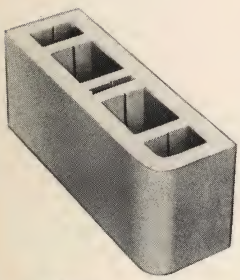
6″ Stretcher

6TC60 SM
(Good one face)



8″ Stretcher

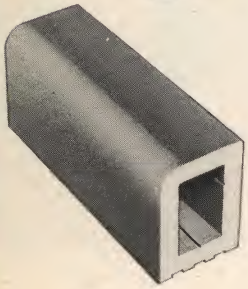
6TC80SM
(Good one face)



Bullnose Jamb or Corner

6T4—11⅝″ long

5T4— 9⅝″ long



Bullnose Sill or Cap
6T20

SMOOTH INTERIOR WALL UNITS

NATCO Buff Unglazed and Manganese Spot Facing Tile produced in the tile face size indicated above is designed for various uses in all types of construction. Manufactured of similar selected fire-clays, NATCO Facing Tile is frequently used in conjunction with exterior Dri-Speedwall Tile for loadbearing interior backing or facing of multiple unit walls and in general for interior walls, partitions and veneers.

NATCO Facing Tile is also particularly designed and used with all kinds of exterior masonry walls, including brick and stone, and other types of construction for interior walls and partitions, where good appearance combined with moderate cost is of primary importance. Also used in some cases above interior wainscots of NATCO Ceramic or Clear Glazed Vitritile, as described on pages 2 to 11 of this catalog, where the material cost factor may require a lower priced product.

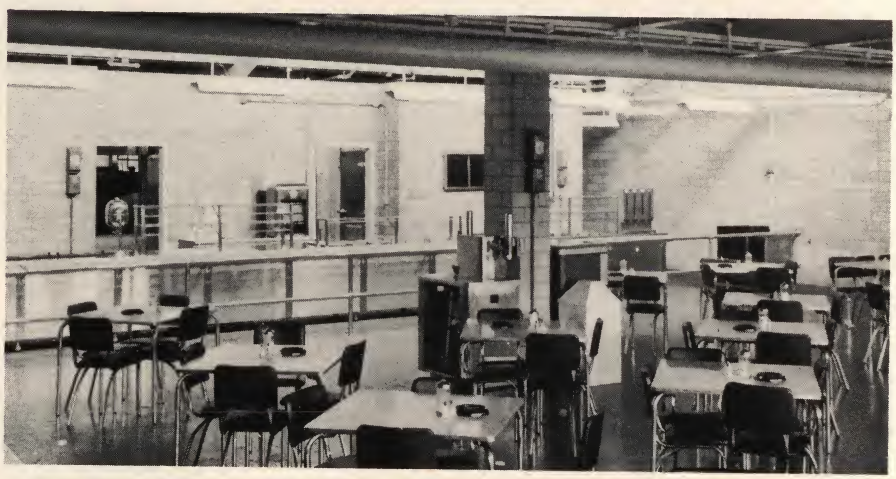
Stretcher units available in nominal 4-inch, 6-inch, and 8-inch thicknesses; also in 2-inch thickness for furring. Stretchers and Shapes are usually furnished select one face, however 4-inch thickness stretchers can be supplied select two faces if desired. Other thicknesses of interior walls and partitions, select two faces, are constructed of two units, back to back or in some cases with interior masonry core units to obtain the desired wall thickness. Units may be bonded structurally by overlapping two different sizes in successive courses or connected together with heavy metal ties in accordance with building code and specification requirements.

Shapes and Fittings are furnished for complete installations, including square and bullnose jambs, corners, sills, caps, lintels, and cove base* to supplement the basic stretcher units. A partial list of stretchers and shapes are shown at the left to illustrate the attractive appearance, design and utility of the various sizes and shapes produced.

*To eliminate staining of the base course in buff or manganese spot interior walls, a base course of ceramic glazed units, straight or coved, should be used.

For complete shape catalog and applicable unit specification, please write for:
NATCO Buff and Manganese Spot Facing Tile—Bulletin DRI-18-C

National Biscuit Co., Chicago, Illinois. Exterior — NATCO Buff Unglazed Dri-Speedwall Tile; Interior — NATCO 6T Ceramic Color 9560 Glazed Vitritile and Buff Unglazed Facing Tile. Ragnar Benson Inc., Contractors.



Christie Brown & Company Limited, Toronto, Ontario, Canada. Natco Buff Unglazed Facing Tile Interiors. Architect: Mathers & Haldenby, Toronto. Contractor: Dickie Construction Company Limited, Toronto.

NATCO UNIWALL FACING TILE

BUFF RANGE RUGG-TEX EXTERIOR FINISH
CERAMIC GLAZED INTERIOR FINISH
TILE FACE SIZE 3⅝" x 11⅝"

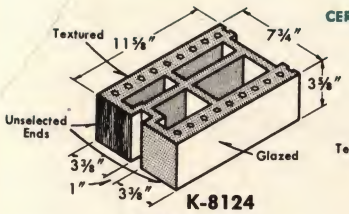
NATCO Uniwall Facing Tile is furnished in nominal 8" thickness for complete single unit wall construction. The exposed faces of the units, when in place, have unglazed rugg-tex exterior finish in a buff range, and ceramic glazed interior finish. A line of interior ceramic glazed units, furnished only to supplement exterior Uniwall units, are available as noted below. Uniwall units are made of hard-burned deaired fire clay and conform to the requirements of A.S.T.M. and Federal Specifications for loadbearing structural clay tile as to number of cells, shell and web thickness, scoring and coring.

The small number of shapes required to provide a completely finished wall — inside and out — offer sizeable construction economies while giving the advantages of a ceramic glazed permanent interior finish and the appearance of a high quality face brick exterior.

For additional information, please write for:
NATCO Uniwall Facing Tile details—Bulletin UW-100-2

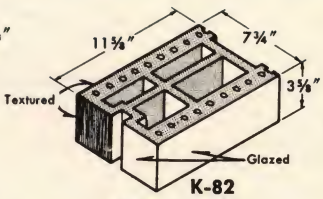
EXTERIOR WALL UNITS

CERAMIC GLAZED INTERIOR FINISH · BUFF RANGE RUGG-TEX EXTERIOR FINISH



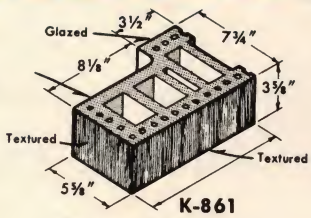
K-8124
8" Stretcher (b)

K-8124D (Good 2 faces)
■ **K-8124** (Good textured face.— back optional by Natco)
■ **K-8124sm** (Good textured face — unselected glazed interior face)
■ **K-8124su** (Good textured face — unselected smooth unglazed interior)

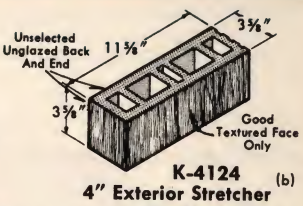


K-82
8" Full Jamb (shown)

Also furnished:
K-382 Half Jamb — 5⅝" Long (Good 2 faces and exposed returns)

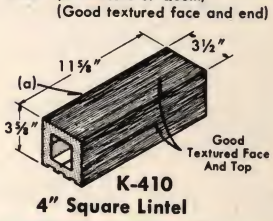


K-861
Outside "L" Corner
Good exterior adjacent face and interior glazed area



K-4124 (b)
4" Exterior Stretcher

Also furnished:
X-42 (4" Closure or Quoin) (Good textured face and end)

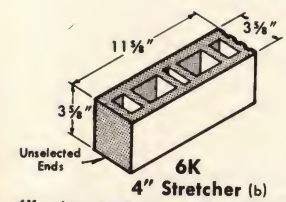


K-410
4" Square Lintel

NOTE: "Good one face," nominal 6 inch and 8 inch thick interior and exterior stretcher units, marked with the symbol (■), are furnished subject to available stock and accumulation only.

INTERIOR WALL UNITS (CERAMIC GLAZED FINISH)

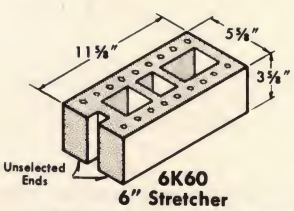
Furnished only for jobs where 8" Uniwall "Exterior Wall Units" are used for Exterior Walls. (Back face of units furnished as noted).



6K
4" Stretcher (b)

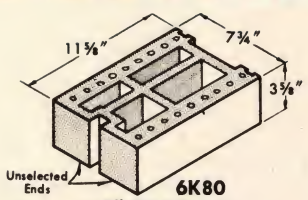
6K (Good 1 face — back optional by Natco)
6Ksm (Good 1 face; unselected glazed back)
6Ksu (Good 1 face; unselected smooth unglazed back)
6KD (Good 2 faces)

Also furnished:
6KA Soap Stretcher — 1 11/16" thickness



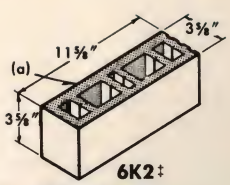
6K60
6" Stretcher

■ **6K60** (Good 1 face — back optional by Natco)
■ **6K60sm** } See description at left for good faces and backs as furnished
■ **6K60su**
6K60D



6K80
8" Stretcher (b)

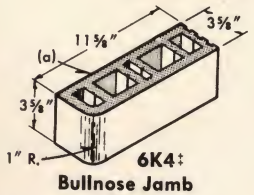
■ **6K80** (Good 1 Face — back optional by Natco)
■ **6K80sm** } See description at left for good faces and backs as furnished
■ **6K80su**
6K80D



6K2‡
Square Jamb or Corner

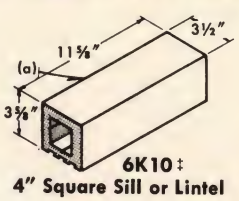
Also furnished:
6K2A Soap — 1 11/16" thickness

Notes:
(a) Unselected smooth unglazed backs.
(b) For 12" walls use combination of 4" and 8" stretcher units.
‡ Indicates units kerfed at plant to facilitate cutting at job to produce furring or soap units as required.

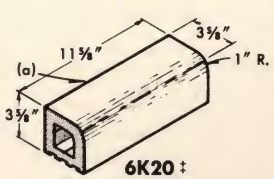


6K4‡
Bullnose Jamb or Corner

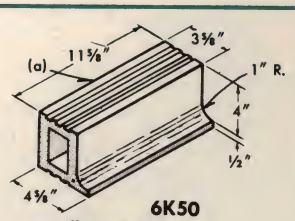
Also furnished:
6K4A Soap — 1 11/16" thickness



6K10‡
4" Square Sill or Lintel



6K20‡
4" Bullnose Sill



6K50
4" Cove Base Stretcher

Also furnished:
6K50A Soap — 1 11/16" thickness; Cove Base Stretcher
(Supplementary cove base fittings also furnished)

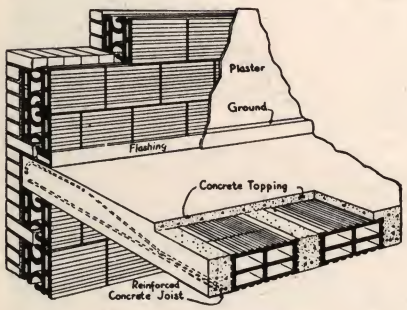
NATCO CORPORATIO

NATCO STRUCTURAL CLAY TILE

NATCO TILE FLOOR SYSTEMS

NATCO Combination Floors

In NATCO Long Span Combination Tile and Concrete Floors, shown below, simple 12 x 12-inch structural clay tile of the proper thickness are used for fillers between the reinforced concrete joists.



For complete information on NATCO Floor Systems, please write for: Bulletin PC-49

NATCOFLOR Long Span Floor System

NATCOFLOR Long Span Floor is a combination of special shaped NATCO Structural Clay Tile with 2-inch wide cement grout joists or ribs spaced 13 inches center to center between the tile.

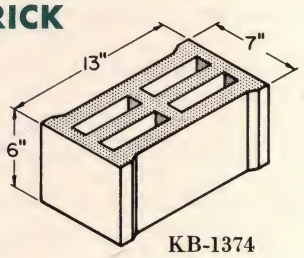
NATCO Wide Center Combination Floors

NATCO Wide Center Joist Floors use a special NATCO floor tile filler, 20 inches in width in varying thicknesses, with reinforced concrete joists. Also furnished in 16 inch widths.

NATCO KILN FLOOR BRICK

From years of experience in the manufacture of clay products, Natco has developed a quality line of fire clay Kiln Floor Brick for its own use, and is pleased to furnish these units to other manufacturers for their kiln floor and feather wall requirements. These rugged, heavy duty units are available from our Magnolia, Ohio, plant in five standard sizes as tabulated below.

Please write for Detail Sheet No. KB-103



KB-1374

Tabulation of Shapes and Sizes

Shape No.	Dimensions			Weight, Lbs.	No. of Cells
	Length	Width	Height		
KB-1374*	13″	7″	6″	30#	4
KB-1376	13″	7″	6″	30	6
KB-1396	13″	9″	6″	41	6
KB-1398	13″	9″	6″	42	8
KB-1474	14″	7″	6″	31	4

*Illustrated

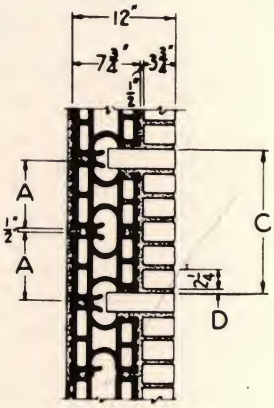
NATCO SPEED-A-BACKER TILE

NATCO Speed-A-Backer Tile—a structural clay tile backing unit—hard burned—designed with two smooth handles—one at top, the other at bottom of each tile. Speed-A-Backers are laid very quickly with one hand and without glove protection.

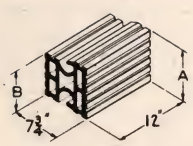
DIMENSIONAL TABLE

Showing Speed-A-Backer Unit Heights
Furnished in 7¾″, 9¾″ and 11¾″ thicknesses

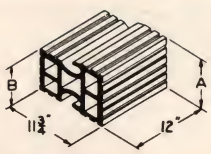
With ⅜″ Brick Joints		With ½″ Brick Joints	
A = 7⅜″	C = 15¾″	A = 7¾″	C = 16½″
B = 6″	D = ⅜″	B = 6⅜″	D = ½″



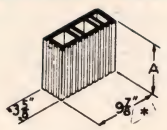
SHAPE SIZES AND DETAILS FOR USE WITH ⅜″ & ½″ BRICK MORTAR JOINTS



8″ Scored Stretcher
Size 7¾″ x 7⅜″ & 7¾″ x 12″



12″ Scored Stretcher
11¾″ x 7⅜″ & 7¾″ x 12″



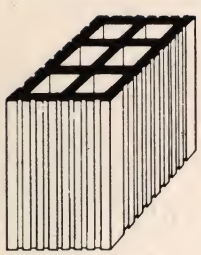
Speed-Closure
(4 Brick Equivalent)
Size 3⅝″ x 9⅞″ x 7⅜″ & 7¾″
*Furnished 12″ in some localities.

12″ Wall Section
8″ Speed-A-Backer with
Face Brick exterior

For further detailed information please write for:
NATCO Speed-A-Backer Tile Details — Bulletin PSDB-10

Other types of backing tile available on order.
Please contact nearest sales office for information.

NATCO LOADBEARING AND PARTITION TILE



NATCO LOADBEARING TILE
Scored and Unscored

Made of hard-burned clay, walls of NATCO Loadbearing Tile resist fire and are strong and enduring. Each unit lays up 12″ x 12″ or one square foot of wall surface. They are furnished for use in most standard wall thicknesses. Standard NATCO Loadbearing Tile are furnished scored for plaster. Where an exposed or painted surface is required, they are also made unscored on either one or two sides.

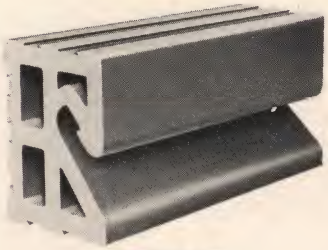
For full information please write for:
NATCO Loadbearing and Partition Tile details — Bulletin LB-2

NATCO NON-LOADBEARING TILE
Scored and Unscored

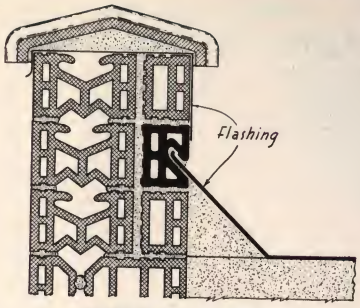
For clay tile partitions and interior walls, NATCO Non-Loadbearing Tile are light, strong and easily handled by the mason. Unless otherwise specified, NATCO Non-Loadbearing Tile is furnished scored to receive plaster. It is also furnished unscored on either one or two faces, as desired, for warehouses, industrial plants, elevator shafts, and similar applications where natural or painted surface is required. Nominal face size is 12″ x 12″ and is furnished in most all standard wall thicknesses.

NATCO RAGGLE BLOCKS (FLASHING TILE)

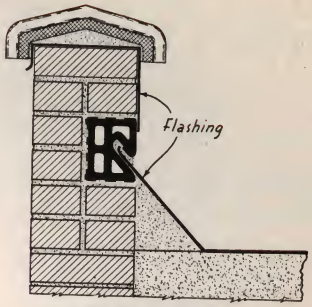
FOR THE CRITICAL PART OF EVERY ROOF



Nominal Size
4″ x 5⅓″ x 12″



NATCO Raggle Block in
Typical 12 inch Masonry Wall



NATCO Raggle Block in
Typical 8 inch Masonry Wall

NATCO Raggle Blocks (also called Flashing Tile), when laid in place, provide a perfect seal and become an integral part of the parapet wall or other intersecting surface. When properly installed with correctly designed flashing, water cannot seep through or down the wall and go under the roofing and cause dampness.

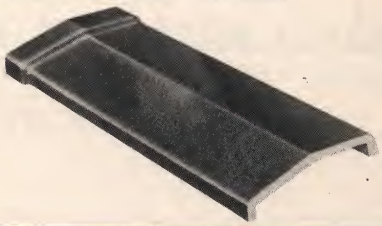
NATCO Raggle Blocks are scientifically designed with heavy shells to offer maximum strength and endurance and require practically no maintenance cost during the life of any building where used. They are furnished in natural shale colors in nominal 12″ lengths. Corners, internal and external, are formed by means of standard mitered sections.

For literature on details, please write for: NATCO Raggle Block details — Bulletin RB2-53.

NATCO DOUBLE SLANT WALL COPING

PROTECTIVE COVERING TO PREVENT SEEPAGE OF MOISTURE INTO PARAPET WALLS

A practical and decorative wall coping of salt glazed, hard burned clay in mingled dark brown colors that harmonize with stone, brick or tile masonry work. Furnished for nominal 8″, 12″ and 16″ wall thicknesses in standard 2 foot lengths with supplementary 6″, 12″ and 18″ short lengths as required. Stock fittings, such as ends, starters, "T" sections and corners, are also furnished as job conditions require. Please write for complete information.



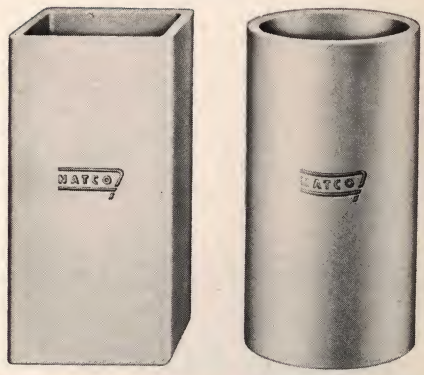
NATCO ROUND AND RECTANGULAR FLUE LINING

In both the round and rectangular types, Natco Flue Lining of hard burned clay acts as a heat and corrosion proof shell on the inside of the chimney. Heat is confined effectively to the inside of the chimney. Adapted to all sizes and shapes of chimneys, Natco Flue Lining is low in cost when protection secured, fuel saved, maintenance eliminated and life-long service are taken into consideration. Please write for further information.

NATCO Rectangular Flue Lining is furnished in the following sizes in 2 foot lengths:

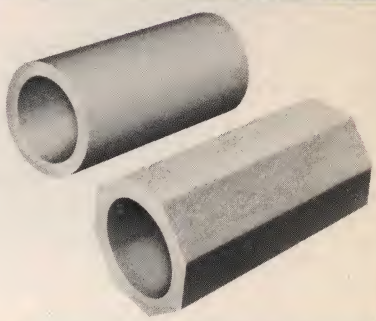
4½″ x 8½″	8½″ x 13″	13″ x 18″
4½″ x 13″	8½″ x 18″	18″ x 18″
8½″ x 8½″	13″ x 13″	20″ x 20″

NATCO Round Flue Lining is furnished in 6″, 8″, 10″, 12″ and 15″ inside diameter sizes, all in 2 foot lengths.



NATCO DRAIN TILE

NATCO Clay Drain Tile will not deteriorate from action of acids or alkalies. They are strong and enduring — resist frost action. Their smooth, hard burned inside surfaces insure a rapid flow of water — also assure great drainage capacity. NATCO Clay Drain Tile, available in standard sizes, is preferred for use in residential, industrial and commercial construction of all kinds, as well as for drainage on the farm, highway and railroad. Please write for full information.

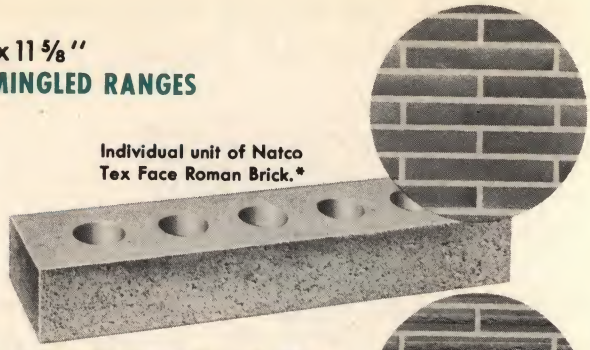


NATCO ROMAN FACE BRICK

NOMINAL SIZE 2"x4"x12" BRICK SIZE 1⅝"x3⅝"x11⅝"

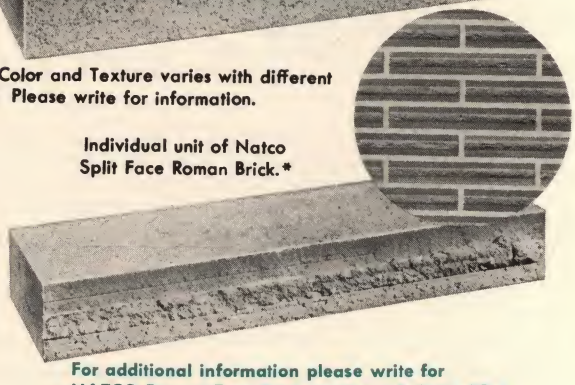
FURNISHED IN RED MINGLED, FLASHED RED, GRAY AND BUFF MINGLED RANGES

NATCO Roman Face Brick meets the requirements of the discriminating owner, architect and builder for a distinctive modern adaptation of the original roman type face brick. Appealing in color and texture as well as the feeling of comfort and safety only obtained in houses and buildings of hard burned clay masonry construction.



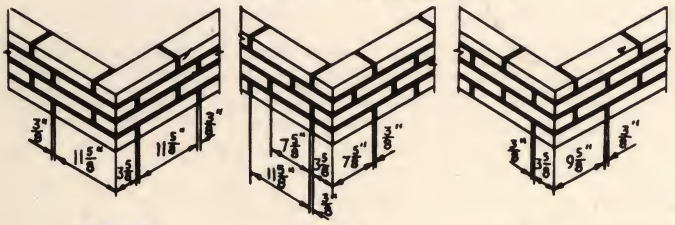
Individual unit of Natco Tex Face Roman Brick.*

*Note: Color and Texture varies with different plants. Please write for information.



Individual unit of Natco Split Face Roman Brick.*

SUGGESTED BOND—Random or ⅓ bond.



⅓ bond (Staggered pattern)

⅓ bond (Step pattern)

½ bond (Conventional center bond)

For additional information please write for NATCO Roman Face Brick details — Bulletin RB-2

NATCO NORMAN FACE BRICK

NOMINAL FACE SIZE 2⅔" x 12" BRICK FACE SIZE 2-1/6" x 11½"

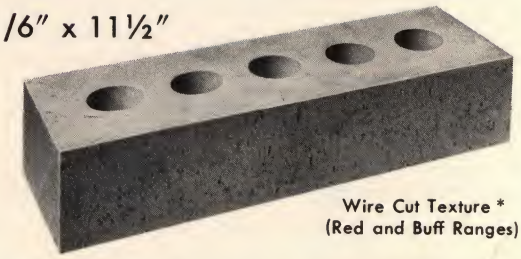
FURNISHED IN RED, GRAY AND BUFF RANGES

NATCO Norman Face Brick is especially appealing in modern industrial, commercial, home construction etc., where brick facing is specified and strong horizontal lines are desired for architectural effect.

A Norman Brick is equivalent to one and one-half standard size brick and, therefore, provides for economy in erection costs as well as distinctive architectural treatments.

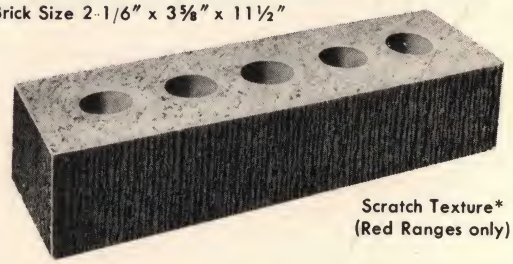
In connection with NATCO "SCR" Brick construction, NATCO Norman Brick having the same color, texture and face dimensions are used for facing foundation walls between the grade line and floor level, for window sills, lintels and chimneys.

*Note: Color and Texture varies with different plants. Please write for information.



Wire Cut Texture * (Red and Buff Ranges)

Brick Size 2-1/6" x 3⅝" x 11½"



Scratch Texture* (Red Ranges only)

NATCO STANDARD SIZE FACE BRICK

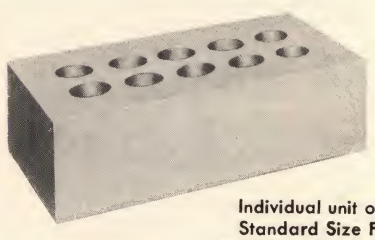
BRICK SIZE—2¼" x 3¾" x 8"

FURNISHED IN BUFF, GRAY AND RED RANGES, SMOOTH AND TEXTURED FINISHES

NATCO smooth Standard Size Face Brick, available in Buff and Gray ranges, is ideally suited for exterior masonry walls where a clean and smooth appearance is desired for attractive architectural effect.

Textured Buff and Manganese Gray, as well as Flashed ranges are also available in a pleasing velour texture and are desirable for all types of construction.

Standard Size brick are also produced in textured rich red colors or in flashed mixtures of variegated reds with black or green ranges.



Individual unit of NATCO Standard Size Face Brick Brick Size 2¼" x 3¾" x 8"

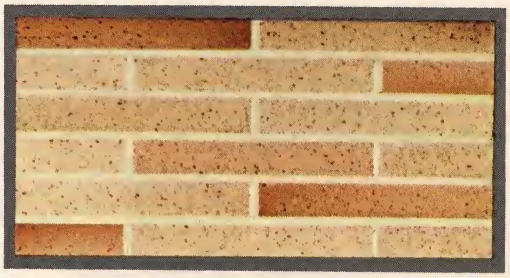
*NOTE: Color and Texture varies with different plants.

For complete information, please contact NATCO's nearest Branch Sales Office (see back cover).

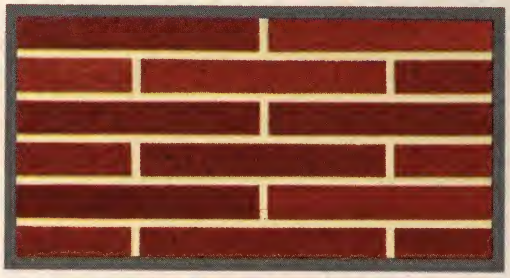
NATCO FACE BRICK

TYPICAL COLOR RANGES AND TEXTURES

ROMAN SIZE



Velour Texture Roman Brick
Buff Mingled Range



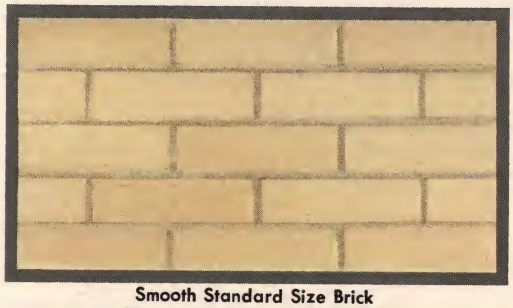
Velour Texture Roman Brick
Magnolia Red Range

NORMAN SIZE

Velour Texture Norman Brick
Buff Mingled Range

Velour Texture Norman Brick
Magnolia Red Range

STANDARD SIZE



Smooth Standard Size Brick
Diamond Buff Range 101-103

Smooth Standard Size Brick
Diamond Gray Range 131-133

Velour Tex Standard Size Brick
Vulcan Buff Range 251-256

Velour Tex Standard Size Brick
Vulcan Manganese Gray Range 295-298

Matt Tex Standard Size Brick
Port Murray Dark Red Range 710

Matt Tex Standard Size Brick
Port Murray Range 730

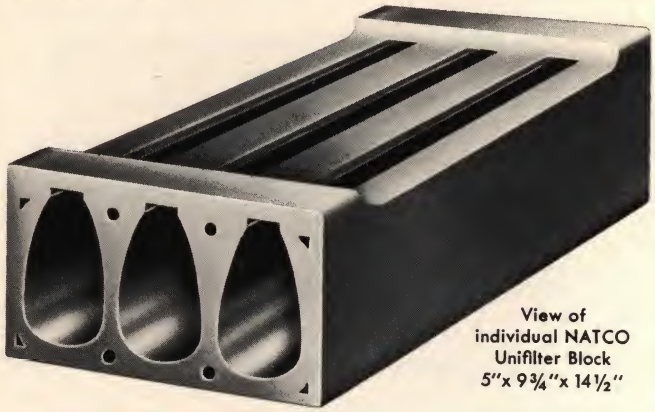
NATCO CORPORATIO

NATCO UNIFILTER BLOCK UNDERDRAINS

FOR TRICKLING FILTER BEDS OF SEWAGE DISPOSAL PLANTS

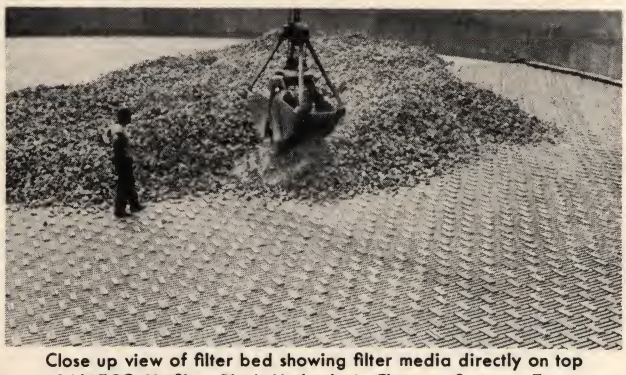
NATCO Unifilter Blocks are one piece salt glazed underdrains used for either standard rate or high rate trickling filter systems. The egg-shaped run-off channels provide maximum flow capacity for both types of systems. NATCO Unifilter Blocks combine low absorption qualities with great strength, ruggedness and durability. They are balanced in weight and size for easy handling and are speedily laid at low cost.

NATCO Unifilter Blocks are available in shapes to meet the requirements of all typical trickling filter projects. Send us your plans and our Engineering Department will gladly cooperate with you in working out the most efficient and economical use of Natco Unifilter Blocks for any Trickling Filter Sewage Disposal Plant.



View of individual NATCO Unifilter Block 5"x 9¾"x 14½"

For more complete information please write for catalog: NATCO Unifilter Block Underdrain Handbook — Bulletin UF-3.



Close up view of filter bed showing filter media directly on top of NATCO Unifilter Block Underdrain Floor at Sewage Treatment Plant in Worcester, Mass.

Aerial view of Sewage Treatment Plant in Worcester, Mass., eight beds in all, each 176'-0" diameter.

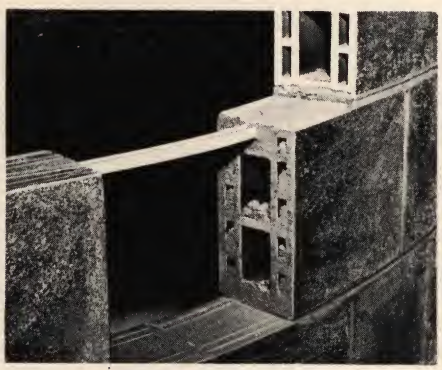
Engineers: Hayden, Harding and Buchanan, Boston, Mass.
Contractors: V. V. Barletta and Sons, Roslindale, Mass.

NATCO GLAZED SEGMENTILE

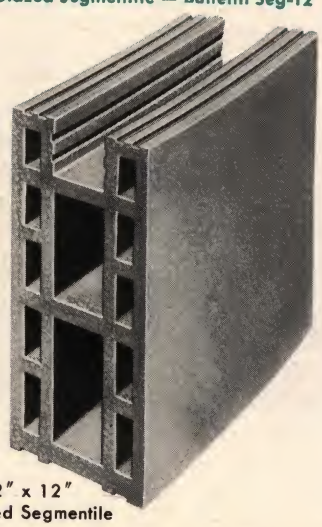
FOR CIRCULAR STORAGE BINS

Storage bins of NATCO Glazed Segmentile are strong and enduring, are free from repairs, are reasonable in first cost, are attractive, and will withstand heavy, sudden or continuous stresses or strains, both internal and external for many years of service to come. Units are 12 x 12 inch face size and are furnished in 6 and 8 inch wall thicknesses. Storage bins of 6 inch Segmentile have been standard for many years for grain bins, ash bins, coal pockets and as covering for gasoline and oil tanks. The 8 inch Segmentile fills the demand for higher structures, which must be reinforced to a greater extent in order to meet the requirements for heavier loads.

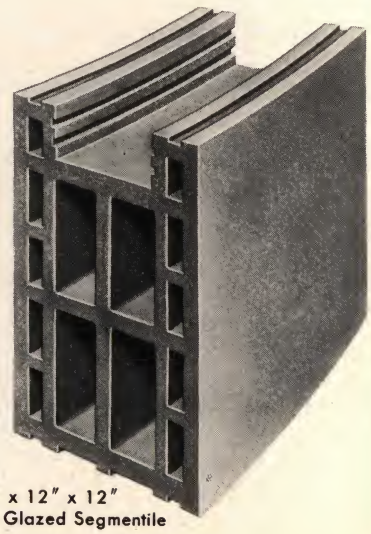
For complete information write for catalog; NATCO Glazed Segmentile — Bulletin Seg-12



Wall section showing method of reinforcing



6" x 12" x 12" Natco Glazed Segmentile

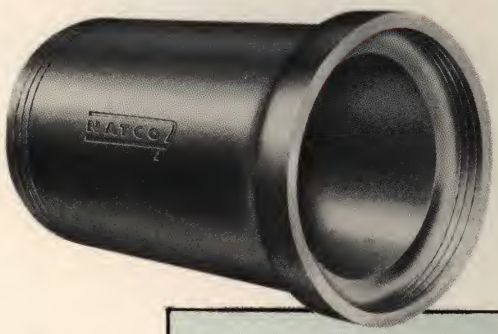


8" x 12" x 12" NATCO Glazed Segmentile

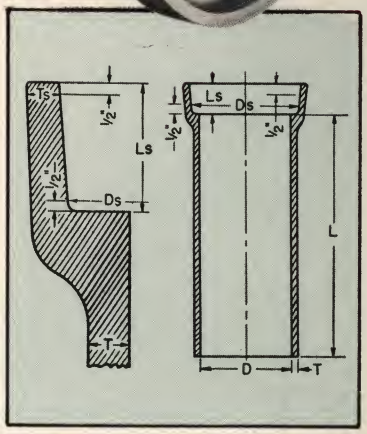
NATCO CLAY SEWER PIPE

NATCO Clay Sewer Pipe is manufactured to conform to the requirements of the American Society for Testing Materials Specification C-13 for Standard Strength Clay Sewer Pipe and Specification C-200 for Extra Strength Clay Pipe and to the requirements of Federal Specification SS-P-361 a.

When ordering standard or extra strength NATCO Clay Sewer Pipe, give the size of pipe (internal diameter) and the laying lengths as shown in table.



For complete information please write for catalog:
NATCO Clay Sewer Pipe — Bulletin SE-50.



Length and Strength of Standard and Extra Strength Sewer Pipe

Pipe size, inches (D)	Laying length, nominal, feet (L)		Limit of minus① variation, inches per foot of length	Maximum difference in length of two opposite sides, inches	Minimum average strength,② pounds per linear foot	
	STANDARD STRENGTH PIPE	EXTRA STRENGTH PIPE			STANDARD STRENGTH PIPE	EXTRA STRENGTH PIPE
4	2	....	¼	5/16	1000	....
6	2	2,3	¼	3/8	1000	2000
8	2,3	3	¼	7/16	1000	2000
10	2,3	3	¼	7/16	1100	2000
12	2,3	3	¼	7/16	1200	2250
15	3	3	¼	½	1400	2750
18	3	3	¼	½	1700	3300
21	3	3	¼	9/16	2000	3850
24	3	3	3/8	9/16	2400	4400

①There is no limit for plus variation. ②By Three Edge Bearing Method.

We furnish a complete assortment of standard fittings in the required pipe sizes.

- T Branches
- Double T Branches
- Y Branches
- Double Y Branches
- Moulded or Pressed Elbows
- Moulded or Pressed Curves
- Cut Curves
- Cut Elbows
- Increasers
- Reducers
- Channel Pipe
- Channel Fittings
- Perforated Pipe
- Slants
- Y Saddles
- T Saddles
- Saddle Hub Tees
- Stoppers
- Strainers
- P Traps
- Running Traps
- Hand Hole Traps
- Center Hand Hole Traps
- Grease Traps
- Meter Boxes
- Stove Pipe
- Stove Pipe Fittings
- Chimney Tops
- Septic Tanks

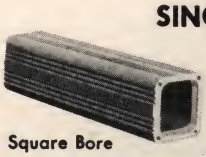
NATCO CLAY CONDUIT

MULTIPLE DUCTS

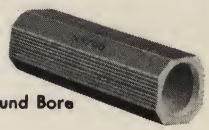
Standard Four-Way

Standard Six-Way

SINGLE DUCTS



Square Bore

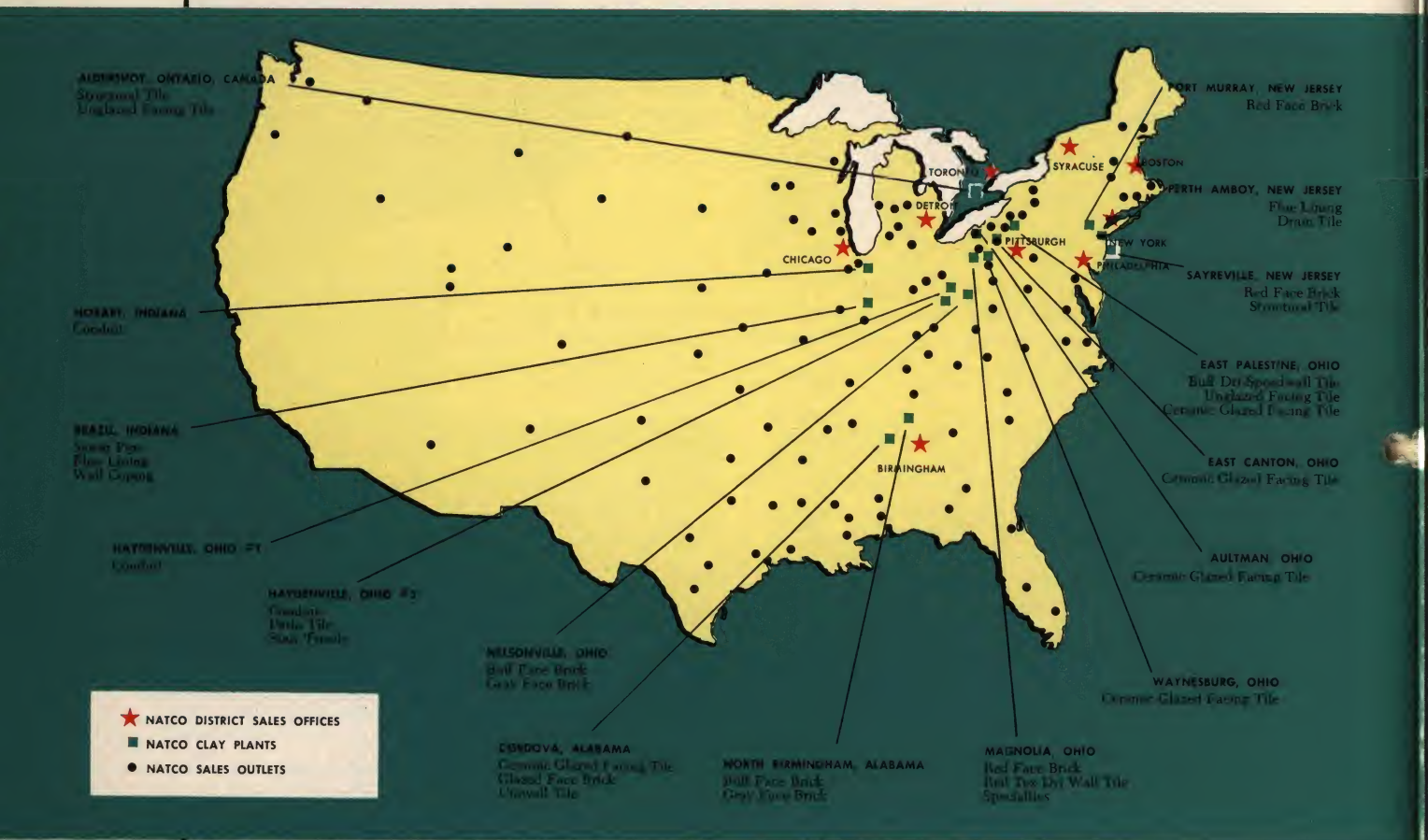


Round Bore

NATCO Clay Conduit is furnished in both single and multiple duct for the permanent protection of underground telephone, telegraph, signal, power and lighting cables against fire, corrosion, electrolysis, mechanical injury and chemical attack. Because of its great strength, wet or dry, NATCO Clay Conduit is a structural unit as well as a conduit and consequently becomes an integral and useful part of any masonry structure.

For more specific information, write for catalog:
NATCO Clay Conduit — Bulletin NUC-10.

Natco's Plants and Sales Outlets are Strategically Located to Serve The Construction Industry's Markets



NATCO CORPORATION

GENERAL OFFICES

327 FIFTH AVENUE, PITTSBURGH 22, PA. Telephone GRANT 1-9370

LOCATIONS OF NATCO BRANCH SALES OFFICES

BOSTON (16), MASS. 20 Providence St., Telephone HUBBARD 2-3549 – 2-3556
CHICAGO (6), ILL. 205 West Wacker Drive, Telephone FRANKLIN 2-5754
DETROIT (2), MICH. 2842 W. Grand Blvd., Telephone TRINITY 3-0310
NEW YORK (17), N. Y. 205-17 E. 42nd St., Telephone MURRAY HILL 4-1922
NORTH BIRMINGHAM (7), ALA. P. O. Box 5476, North Birmingham Station, Telephone BIRMINGHAM 4-1881
PHILADELPHIA (2), PA. 1518 Walnut St., Telephone PENNYPACKER 5-5112
PITTSBURGH (22), PA. 327 Fifth Avenue, Telephone GRANT 1-9370
SYRACUSE (3), N. Y. 1045 James St., Telephone SYRACUSE 9-8222

In Canada: Natco Clay Products Limited, Toronto 5, Ontario

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SINCE 1889

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